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**TEST INFORMATION GUIDE**

This test information guide provides a summary of concepts that are tested on the written (multiple choice) examination for the **Well Inspector I** job. This information can be reviewed in combination with the class specification and examination announcement to assist you in preparing for the examination.

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**I. INSPECTION TECHNIQUES****(16 Questions)**

Employees in this job must be competent with respect to the utilization of various inspection methods and techniques. These techniques are used in the inspection of oil and gas wells in the process of being drilled, the proper plugging of abandoned or dry wells or injection wells used for disposal of fluid. Employees also ensure compliance with all current state laws, rules and regulations related to the production and conservation of oil, gas, water and coal resources of the State. Test question topics include:

- Techniques used to manage potentially hostile situations encountered on the job;
- Securing cooperation of persons at an inspection site;
- Responding to inquiries posed during inspection tours;
- Methods to use to promote a favorable impression of the agency and state employees among the general public.

**II. READING COMPREHENSION****(14 Questions)**

Employees in this job are expected to read and understand information presented in statutes, regulations or technical journals related to the inspection of oil and gas wells regulated by the State. The questions in this section of the exam are designed to test your ability to read and understand technical or complex material in which key ideas and concepts may require interpretation or inference on the part of the reader. This section is comprised of several passages extracted from State statutes and regulations regarding oil and gas wells. Each passage is followed by multiple questions that require you to interpret the meaning of the passage.

**III. WELL INSPECTION METHODS & CALCULATIONS****(20 Questions)**

It is crucial that employees in this job be able to accurately make calculations in order to conduct chemical tests and to monitor the use of pressure gauges to run mechanical and integrity tests (MIT) to show any leaks or holes in wells. The questions in this exam section test your ability to make accurate calculations as applied on the job. Test question topics include:

- Calculating bottom hole pressure of injection wells;
- Estimating the amount of cement needed to secure production casing in drill holes;
- Estimating the depth to the base of fresh water at well locations using surface elevation maps;
- Establishing accurate property descriptions using surveying maps;
- Using casing capacities and annular volumes to determine the amount of water necessary to displace cement;
- Determining drift diameter, internal yield, collapse resistance, etc. of tubing.